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Michael Foster
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DT-6055

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Heiko Müller et al.

SERIAL NO.: Not yet known

FILED: Concurrently

FOR: LABORATORY CENTRIFUGE HAVING A COOLING UNIT

EXAMINER: --

GROUP: --

Assistant Commissioner for Patents
Washington, D.C. 20231
BOX: PCT

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 CFR sections 1.97 and 1.98, applicant respectfully requests that the documents listed on the attached form PTO-1449, be made of record and considered in connection with the examination of this application. Copies of the listed document are enclosed. A translation of the foreign language documents is not readily available.

European Publication EP O 833 138 A1 discloses a device for determining a resistance torque of a rotatable element, a system for monitoring the electric motor,

and a system of controlling a parameter of an associated centrifuge. A centrifuge including such a device is shown in Fig. 3. The centrifuge (24) includes a rotor (28) located in a chamber (26) and driven by an asynchronous motor (32). The operation of the motor (32) is controlled by a control unit (34). The centrifuge has a cooling system (40) regulated by a controller (42) which operation is likewise controlled by the control unit (34). The torque identification means (the torque determining device) includes calculation means (44) and a memory (46). The control unit (34) so controls the operation of the motor (32) that the rotational speed of the rotor (28) does not exceed a maximal speed permissible for a centrifuge. The control unit (30) controls the frequency of the supplied voltage of the motor (32) so that a maximal and permissible rotational speed is not exceeded.

The cooling means controller is controlled in accordance with a resistance torque.

British Patent Publication No. 2,150,717A discloses a cooling centrifuge with exchangeable rotors.

German Patent No. 4,136,514 discloses a device for controlling a rotational speed of a centrifuge electric motor, which is formed as a three-phase induction motor (4), and including an inverted rectifier (5) for feeding current to the motor and connectable to a d.c. source (6), with the controlling device including a frequency converter.

German Publication DE-37 14 627 discloses a device for controlling a centrifuge electric motor (6) and including a frequency converter and a control unit (10).

German Patent No. 3,523,818 discloses a device for controlling operation of the motor (1) of an air-conditioner and including a frequency converter (15) for feeding power to the motor (1).

Patent Abstract of Japan No. 9-024302 discloses a precooling operation control method of a centrifugal separator.

Respectfully submitted,



Alexander Zinchuk

Reg. No. 30,541

Dated: January 16, 2002

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Form PTO-1449 LIST OF PRIOR ART CITED BY APPLICANT		Docket No.: DT-6055		Serial No.: Not Yet Known	
Applicant(s): Heiko Müller, et al					
Filing Date: Concurrently				Group:	

U.S. PATENT DOCUMENTS											
Exam. Init.		Document Number	Date	Name	Class	Subclass	Filing Date if appropriate				
	AA										
	AB										
	AC										
	AD										
	AE										
	AF										
	AG										
	AH										
	AI										
	AJ										
	AK										

FOREIGN PATENT DOCUMENTS														
		Document Number							Date	COUNTRY	Class	Subclass	TRANSLATION Yes No	
	AL	0	8	3	3	1	3	8	9/1997	Europe				X
	AM	2	1	5	0	7	1	7	7/1985	Great Britain				
	AO	4	1	3	6	5	1	4	8/1994	Germany				X
	AP	3	7	1	4	6	2	7	11/1987	Germany				X
	AQ	3	5	2	3	8	1	8	5/1993	Germany				X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
AR	Patent Abstract of Japan No. 09-024302, January, 1997
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EXAMINER	DATE CONSIDERED
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